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ABSTRACT

Designed to be used with the New Zealand curriculum framework, this slide presentation defines "information literacy," gives an information literacy overview, proposes 10 questions that students need to ask themselves, and provides student educational objectives for information skills. The report presents an essential skills assessment formula for primary (years 5 and 6), intermediate (years 7 and 8), and secondary (years 9 and 10) grade. It offers examples of definitions and discusses persuasive language and positive, negative, and neutral writing for intermediate and secondary grades, as well as ambiguity for secondary grades. It then focuses on evaluating information in text and finding information in prose text for intermediate and secondary levels. Contains 13 references. (NKA)



by Gavin Brown

Karyn Dunn

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Good Sources: How Information Finding Details, Main Ideas, & Literate Are NZ Students?



Congress, Auckland, July 11-14, 2000 A Research Report to the International Reading Association 18th World

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What is Information **Literacy?**

"The ability to access, evaluate, and use information from a variety of sources." C. Doyle Cognitive problem-solving approach to a wide variety of information needs P. Moore

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Information Literacy in School Work

Overview
Literacy
formation
Table 1: In

		· · ·			
Before	Use Pertinent Knowledge Bases	Develop Ideas Pertinent to Problem	Develop Problem-solving Goals	Plan Processes	Use Pertinent Affective Traits
During	Find Sources	Appraise Sources	Comprehend Content of Sources	Apply Content to Problem	Create Solution to Problem
After	Present Answer	Evaluate Answer	Evaluate I.L. Processes		

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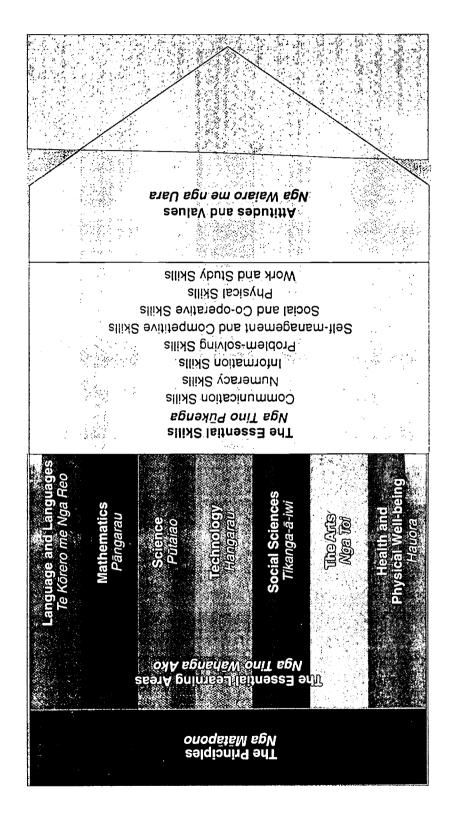
Need to Ask Themselves Questions Students



What is the problem I have that information will help solve?

- What exactly do I need to know?
- How do I get the information I need to answer my problem?
- How do I know which information to trust?
- How is the information I have found relevant to my problem?
- What does the information I have selected mean?
- How do I put all the information together with what I already know so that I can create a solution for my problem?
- How do I share my solution with others?
- How do I know that my solution is any good?
- How do I know that the processes I used are any good?
- Cognitive stages: knowledge, comprehension, application, analysis, synthesis, evaluation 9

The NZ Curriculum Framework







Information Skills

Students will:

- identify, locate, gather, retrieve, and process information from a range of sources;
- organise, analyse, synthesize, evaluate, and use information;
- present information clearly, logically, concisely, and accurately;
- identify, describe, and interpret different points of view, and distinguish fact from opinion;
- information processing technologies confidently use a range of information-retrieval and and competently.
- ∘ NZ Curriculum Framework, 1993, p. 18



Essential Skills Assessment

Primary – Years 5 and 6	Intermediate – Years 7 and 8	Secondary – Years 9 and 10
·Finding Information in Reference Sources	Finding Information in Reference Sources	
Finding Information in Books	Finding Information in Books	
Finding Information in a Library	Finding Information in a Library	Finding Information in a Library
Finding Information in Graphs and Tables	Finding Information in Graphs and Tables	Finding Information in Graphs and Tables*
	Finding Information in Prose Text	Finding Information in Prose Text
	Evaluating Information in Text*	Evaluating Information in Text*
Teacher Rating Scale*	Teacher Rating Scale*	Teacher Rating Scale*
Student Self-Rating Scale*	Student Self-Rating Scale*	Student Self-Rating Scale*

* available in September 2000

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THE ESA:IS TESTS

- I replace the PAT Study Skills.
- are designed for formative assessment.
- are group administered.
- require 30 minutes testing time.
- can be used at any time between March and November.
- contain a range of item and question types the tests are not predominantly multiple-choice.
- used to identify strengths and weaknesses and monitor cover two years at each level, so that the tests may be progress over time.
- can be used for comparative purposes as each student's score can be converted into a stanine.



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ESA:IS Descriptions

The six test modules are:

- Knowledge of sources, directories, encyclopedias, and dictionaries are all included in this test. 1. Findling Information in Reference Sources.
- 2. Finding Information in Books. Students knowledge of alphabetical order, parts of books, indexes, and table of contents are all assessed in this test.
- 3. Finding Information in a Library. This test focuses on locating information in a library and on the selection of relevant, current, and authoritative items.
- 4. Finding Information in Graphs and Tables. In this test a student's ability to comprehend simple and complex graphs and tables are assessed.
- 5. Finding Information in Prose Text. The ability to rapidly scan for information and to take notes from expository text are assessed in this test.
- negative, and neutral statements, facts from opinions, identifying assumptions and 6. Evaluating Information in Text. This test assesses skill in differentiating positive, correct conclusions, along with other evaluative skills.

The two rating scales are:

- 1. Teacher Rating Scale. This rating scale is designed to complement the tests and to provide broader information for the teacher. It comprises both an observation checklist and a rating scale.
- determining how confident they would be or how difficult it would be for them to do a 2. Student Self-Rating Scale. This enables students to evaluate themselves by given task.





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Evaluating Information in Text **Sub-Sections of ESA:1S**

Intermediate Test	Curriculum's Info Skills	
Recognising Opinions	Fact and Opinion (4)	
Positive, Negative, and Neutral Writing	Analyse and Evaluate (2)	
Recognising Assumptions	Analyse and Evaluate (2)	
Conclusions	Analyse and Synthesize (2)	
Writing on a Topic	Identify Information (1)	

Secondary Test	Curriculum's Info Skills	Info Skills
Recognising Opinions	Fact and Opinion	(4)
Identify Persuasive Language	Analyse and Evaluate	(2)
Positive, Negative, and Neutral Writing	Analyse and Evaluate	(2)
Ambiguity	Analyse and Evaluate	(2)
Recognising Assumption	Analyse and Evaluate	(2)
Conclusions	Analyse and Synthesize	(2)
Relevance of Information	Identify Information Interpret Views	(1)



Examples of Definitions

Recognising Assumptions

An assumption is something that is thought to be true without proof.

Identifying Persuasive Language

Persuasive language tries to influence you to a certain course of action. For example, advertising aims to convince you to buy a product.





Intermediate

- Positive, Negative, and Neutral Writing

Underline the one sentence which is negative about the rugby game between the Cheetahs and the Drifters. Saturday's weather resulted in adequate ground conditions for all the games The Drifters showed well developed attacking tactics and played a defensive game. The Cheetahs' game wasn't to their usual standard. The Drifters' win puts played. The match between the Cheetahs and the Drifters was fast and intense. them second on the points table.

□ Y7 – 56%; Y8 – 68%



9 2



-Positive, Negative, and Neutral Writing Secondary

wasn't he just given a mustache to twirl? A glowing Kate Winslet does manage to light spectacle of the year, however, and for mere technical know-how it is mighty up the screen from time to time. Mr. DiCaprio pales, however, when he shares the Almost everyone on the planet loves Titanic. It already qualifies as one of the boximpressive. Beyond that, the wonder fades. There's all that potential human drama on board, but the script can only conjure up repetitive scenes with nasty Billy Zane. Why office champions of all time. Director James Cameron has provided the physical screen with Winslet.

Overall, this review is: *positive* (*negative*) *neutral* (circle one)

□ Y9 – 37%; Y10 – 43%

2.7



Intermediate - Conclusions

of New Zealand. Tuatara live for up to one hundred years. The males can grow up to to hunt insects, such as beetles and weta. They also eat lizards, seabirds and their eggs, and even baby tuatara. Tuatara have very good eyesight, and the pupils of their eyes Approximately one hundred thousand tuatara live in about thirty islands off the coast Fuatara live in burrows, and their young hatch out from eggs. On sunny days, tuatara sunbathe just outside their burrows, storing heat from the sun. At night, they come out sixty centimetres long, and they take up to thirty years to reach their full size. expand in the dark so that they can see at night.

i) "Tuatara do not have good sight in daylight."

Is this conclusion correct?

Yes or No Circle one)

ii) "Male tuatara can take up to approximately one third of their life to reach full size."

Is this conclusion correct?

Yes or No (circle one)

□ Y7 – 45%; Y8 – 50%



Secondary - Ambiguity

According to the brochure, the house was built roughly in 1920.

This sentence is ambiguous as it has two very different meanings. One possible meaning is that the house was not very well built. What is the other possible meaning of the sentence?

The house was built in approximately 1920

☐ Y9 — 58%; Y10 — 69%



ESA: IS Evaluating Information in Text Standardisation Results

Year	Mean	Year Mean Number	Standard Deviation	Standard Error of Mean	Alpha Coefficient
<u>Y7</u>	47%	538	22%	2.25	0.83
Y8	X8 26%	523	22%	2.20	0.84
49	48%	209	20%	2.23	0.80
Y10	54%	484	20%	2.26	0.81

(L)

B







ESA:IS Evaluating Information in Text Standardisation Results

	Inter	Intermediate	Seco	Secondary
	Mean	Number	Mean	Number
Female	54%	492	51%	498
Male	49%	695	48%	495
Decile 1-3	44%	302	39%	261
Decile 4-7	25%	394	46%	337
Decile 8-10	%65	365	28%	279



ESA:IS Evaluating Information in Text Difficulty of Sections

Interm ediate

Secondary

	į		
Writing on a Topic	55%		
Opinions	53%	Opinions	%65
		Persuasiveness	52%
Assumptions	52%	Assumptions	52%
		Ambiguity	52%
+ve, -ve, and neutral	52%	+ve, -ve, and neutral	51%
Conclusions	45%	Conclusions	47%
		Best Information	43%

300



ESA:IS Evaluating Information in Text Growth Between Years

)	

Overall			
Intermediate (Y7-8) 9%	%6	Secondary (Y9-10)	%9
Subsections			
Intermediate	ıte	Secondary	
Assumptions	12%	Ambiguity	14%
+ve, -ve, and neutral	%6	Best information	%6
Writing on a topic	%8	Conclusions	%9
Opinions	%8	Persuasiveness	%9
Conclusions	%9	Assumptions	2%
		+ve, -ve, and neutral	2%
		Opinions	4%



Correlations

ESA:IS Evaluating Information in Text

SECONDARY (Year 10)

Test of Scholastic PAT: Reading

Abilities

Comprehension (87 = 12)

(N=129)

0.84

ESA:IS

92.0





Prose Texts

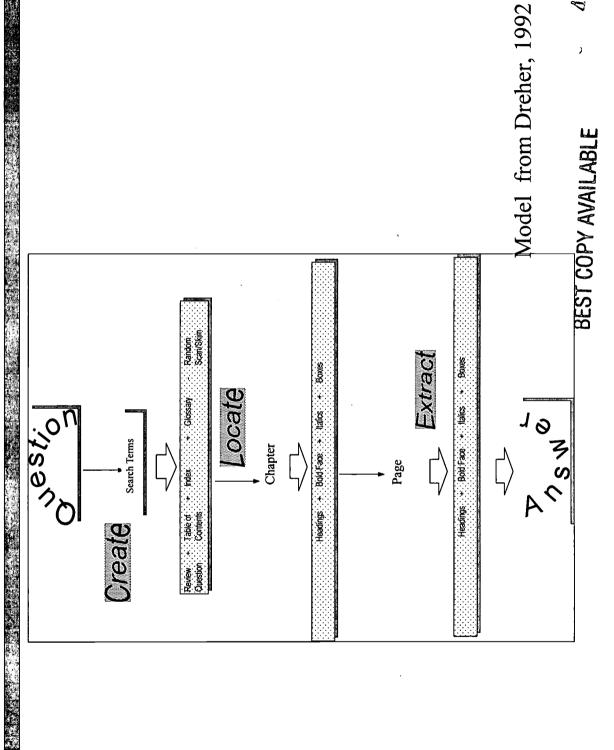
	Prose		Documents		Hypertext
	Text books	•	Tables	•	Cd-Rom
•	Encyclopedia entries	•	Charts, graphs	•	World Wide Web
•	Journal articles	•	Maps		
•	Manuals	•	Diagrams		

•Importance

- ·Widespread, Reliable, Authoritative Sources of Information
- •Information Text Genre Powerful in 'Information Age'
 - •Competence Requires Exposure (Duke, 1999)

Finding Information in **Prose Text Model**





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Reading Processes

Reading to Locate (Dreher, 1993; Guthrie & Kirsch, 1987)

Not read to learn but to look up or consult, & record

Strategic selective reading to locate specific, goal-related information

Skimming or Scanning

Rapid location of information that matches search requirements by seeking key elements

Outlining & Organisation

| Detecting & using order of prose text to enhance location & extraction of information 98



Text Cues for Finding Information



	Signaling Devices	Typography	Writing Style	Structure
ə	Headings	•Bold		 Organisation
	Sub-headings	• Italic		•Linearity
Ly P	Titles	• Underline		 Supportive graphics
		Font face		 Sections & sub-sections
SA Cd		 Capitalisation 		 Paragraphing
E		 Quotation marks 		 Topic sentences
	•Labels		 Vocabulary 	•Coherence
	 Row & column 		 Syntactic complexity 	•Sidebars
	markers		 Relative clauses 	 Table of contents
			 Passive voice 	• Index
				• Glossary

Present in Assessments **Task Requirements**



- Task difficulty
- declarative verbatim
- I incorporation of parts
 - (O'Donnell, 1993)
- Task Factors
- Search term given
- Complexity
- I Single
- I Multiple
- (Dreher, 1992)

Question types

- Text explicit
- Text implicit
- (Arbruster & Armstrong, 1993)

Distance

- Cue to Answer
- | Close= 1-3 words
- | Far= 4+ words
- | Inference= in other words



Student Requirements

- Prior Knowledge
- **Topic or Content**
- Vocabulary
- Reading Proficiency
- Strategic Capability
- Adjust speed
- I Notice structures
- I Analyse task requirements
- Fluency or Speed

(Arbruster & Armstrong, 1993; O'Donnell, 1993)



Using Organisation to **Locate Information**



Idea/Gist (Chambliss,

- 1995)
- Informational Text Structure Strategy
 - Generalisation,
- Sub-topics,
- Evidence
- **Argument Texts** Not same as

Titles (León & Carretero, 1995)

- Identify Principal Logical Relationship in Text
- Headings (Lorch & Lorch, 1995)
- Signaling Aids Recognition of Organisation



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Mean Results*

ESA:IS Finding Information in Prose Text

- Skim/Scan easier than Organise/Note-make
- Higher Years outperform Lower by small margin
- Girls outperform Boys by small margin
- High Decile outperform Lower Decile

Comments

- Range in every Decile is Nil to Maximum
- High Correlation with PAT Reading Comp (0.8@Y8)
- Full range not detected due to test construction

ار: 00

*all results statistically significant





ESA:IS Finding Information in Prose Text Easy Results

Intermediate & Secondary

Skimming/Scanning

Typographic cues

Declarative Verbatim, Text Explicit

Single Complexity, Answer Near Clue Word

Achievement Levels

Intermediate: 80% Avg; 7 items

Secondary: 70% Avg; 6 items



09



ESA:IS Finding Information in Prose Text **Hard Results**

Intermediate & Secondary

| Notemaking

Incorporation of Parts, Text Implicit

I Multiple Complexity & Answer Inferred from Clue

Format

Intermediate: Graphic (Linear not tested)

| Secondary: Linear (Graphic not tested)

Achievement Levels

Intermediate: 50% Avg; 7 items

| Secondary: 40% Avg; 6 items



Implications from ESA:1S Standardised Testing



Teachable Structures & Strategies Exist

Information Texts

I Schema Cues, Typography, Organisation, Notes

Evaluating Information

Opinions, Assumptions, Conclusions, Bias, Conclusions, Relevance These Info Skills have Strong Connection to General Reading Comprehension

Students Require Practice

Teachers Need Experience & Training





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